

L 39322-65

ACCESSION NR: AT5009243

continuous reflection starting from τ_0 . Analysis of the dependence of $(pE)_{\text{ref}}$ upon τ_0 at various times of the day and the months, and a comparison with experimental data made it possible to express the probability $(pE)_{\text{ref}}$ as an exponential function. This function was computed for various τ_0 values and then compared with experimental data. The difference between the two did not exceed 6%. Long-lasting reflections of radio waves from the E_s-layer are stable, while brief reflections are unstable. Orig. art. has: 3 figures and 1 formula.

b

[EG]

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: ES, EC

NO REF Sov: 004

OTHER: 000

ATD PRESS: 3226

Card 212 *bx*

CHAVDAROV, S. (Sofiya, Bulgariya)

Information organs in the process of forming and distributing
documentary information. NTI no.9:10 '65.

(MIRA 19:1)

L 23133-66 EWA(h)/FCC/EWT(1) GW
ACC NR: AP6006670 SOURCE CODE: UR/0203/66/006/001/0143/0146

AUTHORS: Chaydarov, S. S.; Chernysheva, S. P.; Shatkhin, Kh. Z.

ORG: Rostov-on-Don State University (Rostovskiy-na-Donu gosudarstvennyy universitet)

TITLE: Stability of reflections from the sporadic E layer and solar activity

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 1, 1966, 143-146

TOPIC TAGS: solar activity, E layer, sunspot, solar cycle, electromagnetic wave reflection

ABSTRACT: The authors point out the contradictions in the literature concerning the dependence of E-layer reflections on phases of the solar cycle. They consider the following parameters characterizing stability of reflection from E_g (parameters that they previously introduced into the literature): τ' - duration of continuous reflections, $(p_{E_g}) \tau' > \tau_0$ - probability of the appearance of E_g during certain hours of the day with a given duration of uninterrupted reflections (hereafter called P), θ - the stability coefficient, characterizing the rate of decrease in

Card 1/2

UDC: 550.388.2:523.745

L 23133-66
ACC NR: AP6006670

probability P with increase in τ . A number of observational data are examined, particularly ionospheric data from Rostov-on-Don for 1960--64 in conjunction with 1958--59 data. Graphs of probability for these periods have been plotted. From an examination of the results it appears that P and θ are the best parameters for detailed definition of the E_s layer. The normal probability of the E_s layer has no detectable connection with the cycle of solar activity. The probability of the layer with a given duration as τ increases shows a notable reciprocal correlation with the sunspot number. A reciprocal dependence on phase of the solar cycle is clearly manifested in changes in duration of reflections and in the stability coefficient. The reciprocal dependence of P and θ on the sunspot number may be explained to some extent by the fact that in a year of maximal solar activity the processes at work in the ionosphere are more sharply manifested, and these lead to an increase in amount of reflection of short duration. Orig. art. has: 3 figures.

SUB CODE: 04, 03 SUBM DATE: 24 May 65/ ORIG REF: 007/ OTH REF: 003

Card 2/2 23

L 05253-67 EWT(1)/FCC GW
ACC NR: AP6018925

SOURCE CODE: UR/0203/66/006/003/0590/0593

AUTHOR: Svechnikov, A. M.; Chavdarov, S. S.; Chernysheva, S. P.

31.

ORG: Rostov-on-Don State University (Rostovskiy-na-Donu gosudarstvennyy universitet)

B

TITLE: Stability of reflections from a sporadic E layer and radiowave absorption in a solar cycle

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 3, 1966, 590-593

TOPIC TAGS: solar cycle, E layer, ionosphere, radiowave absorption

ABSTRACT: In view of the fact that the absorption of radio waves in the ionosphere has been shown to bear a direct relation to the W numbers which characterize solar activity, the paper studies the possibility of an inverse correlation between the stability of reflections from the Es layer and solar activity as a result of the absorption effect. An analysis of data pertaining to radio wave absorption is made, and these data are compared with data on the stability of signal return on a diurnal, seasonal, and multi-annual basis. Material is also analyzed in order to bring to light the effect of the Sun's zenith distance on the degree of absorption and on the pattern of reflections from the Es layer. It is shown that, for diurnal histories, an

Card 1/2

UDC: 550.388.2

L 05253-67

ACC NR: AP6018925

inverse correlation in the readings of θ (the stability factor) and L (the absorption factor) is observed at noon time, and a direct correlation during morning and evening hours. On a seasonal basis, maximum values for θ coincide with maximum L readings during the summer period. When measured over many years, an inverse correlation is observed for θ and W and a direct correlation is noted for L and W. Since no unique dependence is found between θ and L, this is taken to mean that an increase in the factor describing the pattern with which reflections are received from the E_s layer as solar activity decreases cannot be explained by reduced absorption alone. Orig. art. has: 4 figures.

SUB CODE: 08/ SUBM DATE: 17Jul65/ ORIG REF: 005

Card 2/2 *gd*

L 087(9)-67 FWT(1)/FCC GW
ACC NR: AP7001645

SOURCE CODE: UR/0203/66/006/004/0793/0794

18

AUTHOR: Chavdarov, S. S.; Chernysheva, S. P.

ORG: Rostov-on-Don State University (Rostovskiy-na-Donu gosudarstvennyy universitet)

TITLE: Change of the parameters of Es in the solar cycle

SOURCE: Geomagnetizm i aeronomiya, v. 6, no. 4, 1966, 793-794

TOPIC TAGS: diurnal variation, solar activity

ABSTRACT:

It was demonstrated in an earlier paper that the ordinary probability of appearance of Es at Rostov-on-Don does not reveal a relationship to solar activity, although its diurnal and seasonal variation obviously is controlled by the sun. However, the probability of appearance of Es with a stipulated duration of continuous reflections of not less than two hours has a clear inverse dependence on the phase of the solar cycle, increasing in the years of minimum solar activity. In this paper an effort is made to check whether this pattern is unique for this station or also applied for other stations. Moscow was one of the stations selected for this purpose; Moscow coincides in longitude but differs considerably in latitude from Rostov-on-Don. For Moscow the authors computed the values of the ordinary probability of pEs and the

Card 1/2

07/24 13 99

L 08739-67
ACC NR: AF7001645

probability of continuous reflections $(p_{Es})_{\tau \geq T}$ with a given duration with $\tau_c = 2-20$ hours for frequencies $f \approx 1, 3, 5$ Mc/sec for March, June, September and December 1958-1964. The results give basis for assuming that the derived relationships between the changes of $(p_{Es})_{\tau \geq T}$ and the index of solar activity are not local phenomena for Rostov-on-Don, since the picture obtained on the basis of data for Moscow on the whole is similar to that obtained earlier for Rostov-on-Don.

Orig. art. has: 2 figures. [JPRS: 38,230]

SUB CODE: 04 / SUBM DATE: 17Jan66 / ORIG REF: 001

Card 2/2

bc

CHAVDAROVA, N.

Quantitative determination of zinc in foodstuffs. Khim i
industriia 34 no.1:27-28 '62.

ACC NR: AR7000870

SOURCE CODE: UR/0058/66/000/009/E062/E063

AUTHOR: Chebkasov, A. V.; Chavdarova, N. S.

TITLE: Some nonlinear properties of solid solutions of barium titanium zirconium oxygen systems in constant electric fields

SOURCE: Ref. zh. Fizika, Abs. 9E509

REF SOURCE: Nauchn. soobshch. Rostovsk. un-t. Ser. tochn. i yestestv. n. Rostov-na-Donu, 1964(1965), 75-77

TOPIC TAGS: solid solution, barium containing system, titanium containing system, zirconium containing system

ABSTRACT: Electrical conductivity of ceramic specimens of solid solutions of Ba(Ti, Zr)O₃ with various Zr contents were investigated in constant fields at room temperature. The nonlinearity of volt-ampere characteristics and the dependence of electrical conductivity on composition are discussed. N. Ivanov.
[Translation of abstract] [DW]

SUB CODE: 20/

1 / 1

CHAVRENKO, V.D., assistant

Observations on the development and survival of the eggs
of some geohelminths in Stavropol. Uch. zap. Stavr. gos.
med. inst. 12:161-162 '63. (MIRA 17:9)

1. Kafedra obshchey biologii (zav. dotsent K.I. Gavrilov)
Stavropol'skogo gosudarstvennogo meditsinskogo instituta.

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308210011-5

CHAVKIN, Kh.M.

IVANTSOV, A.I.; CHAVKIN, Kh.M.; VETCHINKIN, N.I.

Gear teeth measuring stand PMZ-5. Stan. i instr. 24 no.6:25-28 Je '53.
(MLB 6:?)
(Gearing) (Gauges)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308210011-5"

CHAVKIN, Kh.M.

Instruments for checking low-module gears. Issn. tekhn. no.4:35-36
Jl-Ag '57. (MLRA 10:8)
(Gearing) (Measuring instruments)

CHAVLEYSHVILI, A. B.

Gand Tech Sci - (diss) "Problem of a new method of producing green baykhoviy tea." Tbilis, 1961. 26 pp; (Ministry of Agriculture Georgian SSR, Georgian Order of Labor Red Banner Agricultural Inst); 180 copies; price not given; (KL, 5-61 sup, 195)

CHAVLEYSVILI, P.M., Cand Med Sci - (diss) "Data on the problem
of the interrelation between rheumatism and chronic tonsillitis."
Tbilisi, Publishing House of the Acad Med Georgian SSR, 1959.
13 pp (Tbilisi State Med Inst), 200 copies (ML,29-59, 131)

-79-

CHAVOV, TODOR.

Durveni mostove. Sofiia, Nauka i izkustvo, 1957. 608 p. [Wooden Bridges;
a university textbook. illus., bibl., diagrs., footnotes, graphs, tables.]

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 10,
Oct. 58

CHAVPETSOV, F.F., starshiy nauchnyy sotrudnik, polkovnik meditsinskoy
sluzhby

Airsickness. Med.sestra 21 no.9:30-34 S '62. (MIRA 15:9)

1. Vojenno-meditsinskiy muzey, Leningrad.
(AIRSICKNESS)

CHAVPIL, M.; HEUZA, Z.

Effect of aging and of malnutrition on chemical contraction and relaxation of the collagen fibers in rats. Česk. fysiol. 8 no.5:
409-410 S '59

1. Ustav hygieny pracuje a chorob a povolani a Laborator pro fysiologie
a patofysiologie premeny latek CSAV, Praha.

(AGING eff.)

(DEFICIENCY DISEASES exper.)

(COLLAGEN)

CHAVTORAYEV, A.I., kand. tekhn. nauk.

Hydraulics of water intake gratings. Dokl. Akad. sel'khoz. 22 no.12:
42-44 '57. (MIRA 11:4)

1. Moskovskiy institut inzhenerov vodnogo khozyaystva imeni V.P.
Vil'yama. Predstavlena akademikom Ye.A. Zamarinyi.
(Hydraulics)

CHAVTORAYEV, Ahmed Ibragimovich, kand.tekhn.nauk; OHLLOVA, V.P., red.;
DEINIK, V.N., tekhn.red.; BALLOD, A.I., tekhn.red.

[Simple water-diverting structures for mountain rivers]
Oblegchennye vodoszabornye socrusheniia na gornykh rekakh.
Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 127 p. (MIRA 12:2)
(Dams)

CHAVTORAYEV, A.I.

98-58-5-12/33

AUTHOR: Chavtorayev, A.I., Candidate of Technical Sciences

TITLE: The Loss of Pressure in Grates (O poteryakh napora v re-shetke)

PERIODICAL: Gidrotekhnicheskoye Stroitel'stvo, 1958, Nr 5, pp 44-45 (USSR)

ABSTRACT: Grates of different types are used at hydraulic installations, but investigations on the hydraulics of grates do not satisfy practical requirements. From 1954 to 1955, at the Gidrotekhnicheskaya Laboratoriya MIIKh imeni V.P. Vil'yams (The MIIKh Hydrotechnical Laboratory imeni V.P. Williams) experiments were carried out to study the hydraulics of metal screens, of grates made of round bars, and of square beams. The author presents 2 formulas used in computing 1) the pressure loss when passing the grate; 2) the resistance coefficient of grates.
There are 3 diagrams.

AVAILABLE: Library of Congress

Card 1/1

CHAVTORAYEV, A.I., kand.tekhn.nauk

Flow passage capacity of hydraulic structures in connection with oblique inflow. Dokl. Akad. sel'khoz. 23 no.10:46-48 '58.
(MIRA 11:10)

1. Moskovskiy institut inzhenerov vodnogo khozyaystva imeni V.P. Vil'yamsa. Predstavlena akademikom I.A. Sharovym.
(Hydraulic engineering)

CHAVTORAYEV, A.I., dotsent, kand.tekhn.nauk

Hydraulics of screens in water intakes. Nauch.zap. MIREK 20:
109-131 '58. (MIRA 13:6)
(Hydraulic engineering)

CHAVTORAYEV, A.I., dotsent, kand.tekhn.nauk

Hydraulic calculation of oblique and lateral spillways. Nauch.
zap. MIIVKH 20:132-143 '58. (MIRA 13:6)
(Spillways)

CHAVTORAYEV, A.I.

Designing water intake installations with bottom gratings. Mauch.
dokl.vys.shkoly; stroi. no.1:291-296 '59. (MIRA 12:10)

1. Rekomendovana kafedroy gidrotehnicheskikh sooruzheniy
Moskovskogo instituta inzherov vodnogo khozyaystva im. B.P.
Vil'yamsa.
(Hydraulic engineering)

CHAVTORAYEV, A. I., Doc Tech Sci -- (diss) "Rationalization of hydraulic installations in mountain rivers." Moscow, 1960. 26 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Inst of Engineers in Water Economy im V. R. Vil'yams); 200 copies; price not given; list of authors' works at end of text (10 entries); (KL, 18-60, 150)

VASIL'YEVA, I.A., dotsent; KOREK, S.I., dotsent; KORYUKIN, S.N., starshiy
prepodavatel'; CHAVTORAYEV, A.I., dotsent; POPOV, K.V., prof.,
red.; KRZHIZHANOVSKAYA, G., red.; SMIRNOVA, Ye., tekhn.red.;
PROKOF'YEVA, L., tekhn.red.

[Practical laboratory work in a course of the study of hydraulic
structures] Laboratorno-prakticheskie zadaniia po kursu gidro-
tekhnicheskikh sooruzhenii. Pod red. K.V.Popova. Moskva, Gos.
izd-vo sel'khoz.lit-ry, 1959. 143 p.

(MIRA 14:1)

(Hydraulic structures)

CHAVUSHIAN, N.; KARAIVANOV, P.; PRODANOV, M.

Determining optimal parameters for the T welded section
of the upper bars in cantilever cranes with their trolleys
moving on the upper belt. Gedishnik mash elekt 12 no. 3:
23-31 '62 [publ. '63].

KARAIKANOV, P.; PRODANOV, M.; CHAVUSHIAN, N.

Optimum parameter of the cantilever crane main truss with parallel belts and with the trolley traveling over the upper belt. Mashinostroenie 13 no.11:8-12 N'64.

CHAVYKIN-KRYGINA, T.B.

Schedule of children in the second year of life. Pediatrilia
36 no.6:42-47 Je '58 (MIRA 11:6)

1. Is kafedry pediatrii (zav. - deystvitel'nyy chlen AMN SSSR
G.N. Speranskiy) i otdela razvitiya i vospitaniya detey rannego
vozrasta (rukovoditel' - dotsent N.M. Aksarina) Tsentral'nogo
instituta usovershenstvovaniya vrachey (dir. V.P. Lebedeva).

(IMPACT.

schedule & organiz. of daily activities in
second year of life (Rus))

CHAWALISZ, B.
CHAWALISZ, B.

Active masses and electrochemical processes in the silver-zinc battery.

p. 157 (Wiadomosci Chemiczne) Vol. 11, no. 3, Mar. 1957, Wroclaw, Poland

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (KEAI) LC, VOL. 7, NO. 1, JAN. 1958

CHAWRONA, W.

Organization of worker-engineer brigades. p. 6, (GOSPODARKA MIESNA, Vol. 6,
No. 1, Jan. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 5
May 1955, Unclassified.

CHAYANOV, A.A.

For full utilization of production capacities. Tekst.prom. 14 no.2:6
F '54. (MLRA 7:5)

1. Direktor Bol'shogo kokhomskogo kombinata. (Cotton manufacture)

C H A Y A N O V, B.A.

21(0),24(0) PHASE I BOOK EXPLOITATION:

SOV/32.1

Akademiya nauk SSSR. Fizicheskiy institut
Issledovaniye po eksperimental'noy i teoretičeskoy fizike; [laboratoriya]
(Studies on Experimental and Theoretical Physics; Collection of
Articles) Moscow, Izd.-vo AN SSSR, 1959. 304 p. Errata slip
inserted. 2,300 copies printed.

Ed.: I. L. Pabelnitskiy, Doctor of Physical and Mathematical Sciences;
S. A. Chernyak, and V. G. Barkenau, Doctor of Physical and Mathematical Sciences;
Prof., Ed. Yu. N. Vinogradov, Commission for Publishing "the Collection
in Memory of Grigory Ivanovich Landberg," I. Ye. Tamm
(Chairman), Academician M. A. Leont'evich, Academician
P. A. Bakhvalov, Doctor of Physical and Mathematical Sciences;
S. L. Mandel'shtam, Doctor of Physical and Mathematical Sciences;
I. L. Pabelnitskiy, Doctor of Physical and Mathematical Sciences;
F. S. Landberg-Barvianskaya, Candidate of Physical and Mathematical Sciences;
Physical and Mathematical Sciences; and O. P. Motulovich (Secretary), Candidate of

PURPOSE: This book is intended for physicists and researchers
engaged in the study of electromagnetic radiations and their role
in investigating the structure and composition of materials.

CONTENTS: The collection contains 30 articles which review
investigations in spectroscopy, molecular optics, semi-conductor
physics, nuclear physics, and other branches of
physics. The introductory chapter gives a biographical profile
of G. I. Landberg, Professor and Head of the Department of
Optics of the Division of Physical Technology (Macromolecular
Physics, and reviews his work in Rayleigh scattering, conduct-
ance, spectral analysis of metals, etc.). No personalities are
mentioned. References accompany each article.

Reportent: B. S. Kinetics of the Action of Light Gases on the
Intensity of Absorption Spectra of Vapors of Aromatic Com-
pounds

Riter, S. M. The Correlation Theory of Rayleigh Light Scatter-
ing

Sobelman, I. I. The Quantum Mechanics Theory of the Intensity
of Combined-Scattering Lines
Sushchinskii, M. M. Dependence of the Width of Combined-
Scattering Lines on the Anisotropy of a Derived
Polarisability Tensor

Fain, I. Ye. Present State of the Theory of Weak Interactions
of Elementary Particles

Furman, L. A. and B. A. Chernyak. The Illumination of
Dielectrics in High Voltage and Electric Fields

Ukholin, S. A. and M. Z. Pronin. Investigation of Combined
Rayleigh-Scattering Spectra in H₂O-H₂O and H₂O-D₂O
Solutions

Pabelnitskiy, I. L. The Thin Structure of Lines of Rayleigh
Light-Scattering in Gases

Prish, I. M. The Role of the Group Speed of Light in Irradia-
tion in a Refractive Medium

Prish, S. S. and I. P. Seddinova. Excitation of Spectral Lines
in the Relative Illumination of a Gas Discharge

Priessner, A. A. and V. V. Median. The Possibility of
Increasing the Sensitivity of the Spectral Determination
of Some Elements

Shpol'skiy, K. V. The Interpretation of Spectra of Aromatic
Hydrocarbons in Frozen Crystalline Solutions

3,5150

28406
S/169/61/000/007/059/10⁴
A006/A101

AUTHOR: Chayakov, B.A.

TITLE: Indicatrices of scattering in free atmosphere

PERIODICAL: Referativnyy zhurnal. Geofizika, no. 7, 1961, 43, abstract 7B285
("Tr. Tsentr. aerol. observ.", 1959, no. 32, 17 - 27)

TEXT: The author investigated indicatrices of scattering at various altitudes over the earth surface using the $\Phi\text{IM}-1$ (FPI-1) photoelectric indicatrix tracer which was lifted by an automatic stratosphere balloon or attached to an aerostat. Photocurrents of electronic multipliers change the frequency of the radiotransmitter whose signals are received on the earth and registered by an electronic oscillograph with a "Lenta" attachment. The design of the device is described in detail. Most reliable data were obtained for relative coefficients of oriented scattering $f(\varphi) = B(\varphi)/B(\pi/2)$, where $B(\varphi)$ and $B(\pi/2)$ are the sky brightness on one almucantar at scattering angles φ and $\pi/2$. The $f(\varphi)$ is pertained to the total atmospheric layer over the observation point. Absolute scattering coefficients $G(\varphi)$ are obtained only in two cases for altitudes up to 6.5 km from $f(\varphi)$ values and values of the optical density of the overlying

Card 1/ 2

Indicatrices of scattering in free atmosphere

28406
S/169/61/000/007/059/10⁴
A006/A101

ing atmosphere (D) by simultaneous flight measurements with an electric photometer

$\sigma(\varphi) = D \cdot f(\varphi)/2\int_0^{\pi} f(\varphi) \sin \varphi d\varphi$. Hence the coefficients of oriented

air scattering $\tilde{\sigma}'(\varphi) = d\sigma(\varphi)/d\varphi$ are calculated and the corresponding relative ^{CH} coefficients $f'(\varphi) = \tilde{\sigma}'(\varphi)/\tilde{\sigma}'(\pi/2)$. Results of measurements are presented made with the FPI-1 device in 1957 - 1958 in the Khar'kov and Moscow rayons under different atmospheric conditions. It is shown that the degree of extension of the scattering indicatrix, defined as $f(20^\circ)$, varies within a wide range in the troposphere. Besides the maximum near the ground, a series of other maxima are observed, which are connected with layers of isothermy, inversion or the decrease of the temperature gradient. The author noted the increased extension of the indicatrix when attaining the tropopause; this is probably connected with the presence of a strongly turbid layer. The degree of extension increases with a greater wavelength; this is explained by the decrease of the molecular component of scattering in the long wave range. The asymmetry of the scattering indicatrix is preserved up to high altitudes; this indicates the presence of aerosol in such altitudes. The scattering minimum is shifted to the side of large angles. For $\varphi > 90^\circ$ the scattering coefficient depends insignificantly on φ .

[Abstracter's note: Complete translation]

V. Golikov

Card 2/2

CHAYANOV, G. A.

"The Relationship Between the Power Output Coefficients of Two Arbitrarily Chosen Points of an Electric Circuit," Elektrichestvo, No 12, 1950.

CHAYANOV, G. A.

USSR/Electricity - Filters

Attenuation
Jan 52

"Calculation of the Magnitude of Effective Attenuation in Electric Filters," G. A. Chay-
anov, Eng., Moscow Higher Polytech School of Communications imeni Podbel'skogo

"Elektrichesvo" No 1, pp 46-49.

Proves a theorem which establishes the dependency between the power delivery coeffs (defined for a section as the ratio of the power delivered to a load terminating the

20177

USSR/Electricity - Filters (Contd)

Jan 52

section to the max power which the feeder to the section could deliver to the load) of an entire circuit and any section or point of the circuit.
Submitted 20 Nov 50.

20177

CHAYANOV, G. A.

PA 240T33

USSR/Electricity - Network Theory

Mar 52

"Concerning the Highest Efficiency of a Four-Terminal Network," Engr G. A. Chayanov, Moscow

"Elektrichestvo" No 3, p 59

As applied to theorem proposed in earlier article by author ("Elektrichestvo" No 12, 1949, pp 45-47), author examines expressions for calcn of highest efficiency and least value of active damping for a passive non-symmetrical 4-terminal network. Submitted 4 May 51.

240T33

CHAYANOV, R.A.

Progressive brigade of women reelers. Tekst. prom. 19 no.57-58
(MIRA 12:10)
My '59.

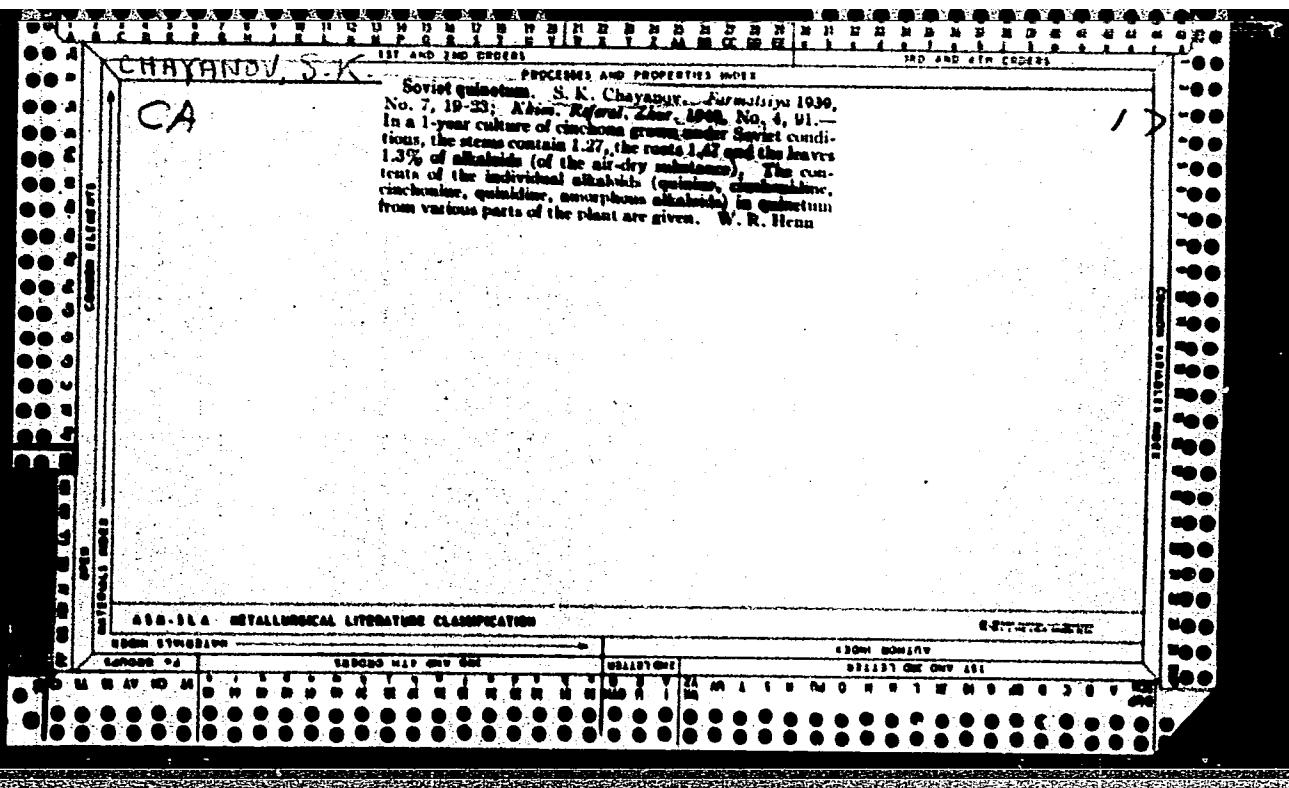
1. Nachal'nik Byure tekhnicheskoy informatsii Ivanovskogo sovnarkhoza.
(Spinning)

ORLOVA, Z.M., dots.; TALEPOROVSKAYA, V.V., dots.; MONAKHOVA, L.A.,
inzh.; YURKOVA, V.A., inzh.; CHAYANOV, R.A., red.;
VASILENKO, A.N., red.

[Manufacture of dress and suit fabrics of mixtures of
lavsan with cotton and viscose fibers] Proizvodstvo pla-
tel'nykh i kostiumnykh tkanei iz smesei lavsana s khlop-
kom i viskoznym voloknom. Moskva, 1963. 31 p.

(MIRA 17:5)

l. Moscow. Tsentral'nyy institut nauchno-tehnicheskoy
informatsii legkoy promyshlennosti.



CHAYANOV, S.K., professor.

Fiftieth anniversary of the Aktyubinsk Agricultural Experiment Station. Nauka i pered.op.v sel'khoz, 7 no.7:91-92 Jl '57.

(MLRA 10:8)

(Aktyubinsk Province--Agricultural Experiment Stations)

CHAYANOV, Sokrat Konstantinovich; REVENKOVA, A.I., red.; PLEVZNER, V.I.,
tekhn.red.; ZUBRILINA, Z.P., tekhn.red.

[Bringing virgin lands in semi-deserts under cultivation]
Osvoenie tseliny v polupustynne. Moskva, Gos.isd-vo sel'khoz.
lit-ry, 1958. 134 p. (MIRA 12:5)
(Kazakhstan--Reclamation of land)

USSR/Cultivated Plants. Fruit Trees. Small Fruit Plants.

M

Abs Jour: Ref Zhur-Biol., No 17, 1958, 77817.

Author : Chaynnov, S.K.

Inst :

Title : How to Liquidate the Periodicity of Fruit Bearing.

Orig Pub: Nauka i peredov, opyt v s. kh., 1958, No 2,
60-61.

Abstract: No abstract.

Card : 1/1

130

Чайанов, С.К.

AUTHOR: Chayanov, S.K., Professor 25-58-4-3/41

TITLE: Il'ich's Will Is Being Fulfilled (Zavety Il'yicha vypolnya-yutsya)

PERIODICAL: Nauka i Zhizn', 1958, Nr 4, page 6 (USSR)

ABSTRACT: The author tells about a 1920 meeting, attended by Lenin, which dealt with the organization of the sowing of crops.

AVAILABLE: Library of Congress
Card 1/1 1. Agriculture-Conference

K
CHAYANOV, S., prof.

A good book ("My memoirs" by Dmitrii Nikolaevich Prianishnikov.
Reviewed by S. Chaianov). Nauka i pered. op. v sel'khoz. 8 no. 4:78-79
Ap '58. (MIRA 11:5)
(Prianishnikov, Dmitrii Nikolaevich, 1865-1948)

CHAYANOV, S.K.

Fifty years' work in the arid zone. Issv. AM SSSR. Ser. biol.
no.5:698-713 S-0 '59. (MIRA 13:2)
(Aktubinsk Province--Dry farming)

30(1)

SOV/25-59-6-37/49

AUTHOR: Chayanov, S.K., Professor

TITLE: Memories of a Scholar

PERIODICAL: Nauka i zhizn', 1959, Nr 6, pp 73-74 (USSR)

ABSTRACT: This is a review of the book "Iz agronomicheskogo proshlogo" ("From the Past of Agronomy") written as the memoirs of Alexey Grigor'yevich Doyarenko, founder of the Soviet school of agrophysicists, professor at the Petrovskaya (Timiryazevskaya) sel'skokhozyaystvennaya akademiya ((Petrovskaya (Timiryazevskaya) Agricultural Academy)), for 30 years editor of the "Vestnik sel'skogo khozyaystva" ("Herald of Agriculture"). The book was published by the Gosudarstvennoye izdatel'stvo sel'skokhozyaystvennoy literatury (State Publishing House of Agricultural Literature), Moscow, 1958. There is 1 photo.

Card 1/1

CHAYANOV, S., prof.

More practical knowledge based on a profound theoretical preparation.
Nauka i pered. op. v. sel'khoz 9 no.10:58-59 o '59 (MIRA 13:3)
(Agricultural education)

CHAYANOV, S.K., prof. pochetnyy pochvoved Sovetskogo Soyuza, laureat
Vil'yamsovskoy premii

Scientific principles of agriculture in extremely arid regions.
Zemledelie 23 no.6:56-64 Je '61. (MIRA 14:6)
(Kazakhstan—Agriculture)

SOV/118-59-3-15/22

28(1) 25(5)
AUTHOR: Korendyasev, G.V., and Chayanov, V.A., Engineers

TITLE: Automation Problems in Mining Enterprises (Voprosy
avtomatizatsii gornorudnykh predpriyatiy)

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva, 1959,
Nr 3, pp 46-48 (USSR)

ABSTRACT: The authors are of the opinion, that complex automation
of all phases of technological processes in mining,
demands installation of equipment, fully adapted for
such automation, and that present day equipment in min-
ing is insufficient. They analyze thoroughly the capac-
ity of compressors, compressor parts, explain the signi-
ficance of mining combine equipment, control systems,
stress the deficiency of loading and unloading operations
and the poor quality of the material from which the mach-
ines are manufactured. They draw the following conclu-
sions: The improvement of mechanical mining equipment
has to be carried out in two ways: Modernization of al-
ready existing machines and installation of new equipment.

Card 1/2

SOV/118-59-3-15/22

Automation Problems in Mining Enterprises

The modernization of such installations and equipment should be carried out first. In addition, the production of components for machines to be modernized must be fully organized, to avoid labor and time wastage.

Card 2/2

3.5150

S/169/62/000/003/051/098
D228/D301

AUTHOR: Chayanov, V. A.

TITLE: Indicatrices of dispersion in the free atmosphere
(Theses)

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 3, 1962, 27, abstract 3B218 (V sb. Aktinometriya i atmosfern. optika, L., Gidrometeoizdat, 1961, 215) *VB*

TEXT: The elongation of the indicatrices of dispersion and their relation to the wavelength are analyzed from observations, obtained in the free atmosphere at different heights up to the tropopause during 1956-1958. *[Abstracter's note: Complete translation.]*

Card 1/1

REZNIKOVSKIY, P.T. (Moskva); RYBASOV, V.I. (Moskva); CHAYANOV, V.A., (Moskva)

Formulation and solution of a problem on nonlinear mathematical
programming. Izv. AN SSSR. Tekh. kib. no.5:121-132 S-0 '63.
(MIRA 16:12)

NAUMOV, I.K., kand. tekhn. nauk; DOBROVOL'SKIY, L.A., gornyy inzhener;
CHAYANOV, V.A., gornyy inzhener

Problems in the over-all automatic control of an open-pit mine.
Nauch. trudy Mosk. inst. radioelek. i gor. elektromekh. no.46:
24-29 '62. (MIRA 17:1)

UL'YANOV, P.V., kandidat veterinarnykh nauk; CHISTYAKOV, F.A., veterinarnyy vrach; ZHIMKIN, P.V., veterinarnyy vrach; CHAYAKOV, Yu.A., student.

Course of babesiosis in cattle in districts infested by the tick Ixodes persulcatus. Veterinaria 32 no.4:45-47 Ap '55. (MIRA 8:5)

1. Ivanovskaya oblastnaya vетбаклаборатория.
(DOMESTIC ANIMALS--PARASITES) (TICKS AS CARRIERS OF DISEASE)

L 29273-66 EWT(1)/FCC GN

ACC NR: AP6019348

SOURCE CODE: UR/0362/66/002/002/0149/0163

AUTHOR: Shifrin, K. S.; Chayanova, E. A.25
BORG: Main Geophysical Observatory (Glavnaya geofizicheskaya observatoriya);
Central Aerological Observatory (Tsentral'naya aerologicheskaya observatoriya)

TITLE: Determining the particle spectrum from the indicatrix of scattering

SOURCE: AN SSSR. Izvestiya. Fizika atmosfery i okeana, v. 2, no. 2, 1966, 149-163

TOPIC TAGS: nuclear scattering, gamma spectrum

ABSTRACT: A study has been made of the stability of a computation method for inversion of the indicatrix of scattering for the spectra of particles for a wide range of dispersive systems with a γ -distribution. The paper cited below gives the results of computations of polydisperse indicatrices of scattering for such systems and describes determination of the regime of sizes of particles for which inversion is possible.
Orig. art. has: 5 figures, 31 formulas and 8 tables. ✓[JPRS]

SUB CODE: 20 / SUBM DATE: 05Sep65 / ORIG REF: 003

Card 1/1 ✓✓

UDC: 551.521.3:535.361

L 18784-63

EWT(1)/BDS AFFTC/ASD/ESD-3 RB

ACCESSION NR: AR3006442

S/0124/63/000/008/B117/B117

SOURCE: RZh. Mekhanika, Abs. 8B779

AUTHOR: Chayanova, E. A.

57

TITLE: Measurement of local scattering functions in the free atmosphere

CITED SOURCE: Tr. Tsentr. aerol. observ., vy* p. 45, 1962, 49-60

TOPIC TAGS: troposphere, local scattering function, scattering function, tropopause aerosol layer, directed scattering

TRANSLATION: Results are cited for the measurement of the vertical variation of the scattering function (indicatrix) in the troposphere up to heights of 10 - 12 km in the Tashkent region in 1960. The measurements were conducted with the use of photoelectric collectors (FEU-18) lifted by automatic stratosphere balloons, in two parts of the spectrum (422 and 542 microns).

A short description of the technique of the experiment is given and the error of the determination of the coefficients of directed scattering is estimated. The results of the measurement show that the coefficients of directed scattering quickly decrease with height in the layer of the atmosphere closest to the surface

Card 1/2

L 18784-63
ACCESSION NR: AR3006442

of the earth (up to 3-4 km) and increase in the layers with increased cloudiness and turbidity. The relation of the scattering coefficients to humidity is established.

Near the tropopause (height of about 10 km) the increase in the coefficients of directed scattering and elongation of the indicatrices is observed which attests to the presence here of an aerosol layer. M. S. Malkevich

DATE ACQ: 28Aug63

SUB CODE: AS, PH

ENCL: 00

Card 2/2

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308210011-5

CHAYANOVA, E.A.

Measurements of the local functions of scattering in the free
atmosphere. Trudy TSAO no.45:49~60 '62. (MIRA 16:10)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308210011-5"

L 3883-66 EWT(1)/FCC GW

ACCESSION NR: AT5025230

UR/2531/65/000/170/0093/0104

30

17

B+1

AUTHOR: Shifrin, K. S.; Chavanova, E. A.

44,55 17,55

TITLE: Indicatrices for Junge distribution and distribution of the Junge type

SOURCE: Leningrad. Glavnaya geofizicheskaya observatoriya. Trudy, no. 170, 1965.
Issledovaniye radiatsionnykh protsessov v atmosfere (Investigation of radiation pro-
cesses in the atmosphere), 93-104

TOPIC TAGS: particle distribution, aerosol

12,44,55

ABSTRACT: The author calculates the polydisperse indicatrices for Junge distribu-
tion and distribution of the Junge type:

$$f(a) = \begin{cases} 0 & a < a_{\min} \\ Aa^{-v} & a_{\min} < a < a_{\max} \\ 0 & a > a_{\max} \end{cases} \quad (1)$$

The normalization factor can be expressed as

$$A = Na_{\min}(\nu - 1) * (R) \quad (2)$$

Card 1/2

L 3883-66

ACCESSION NR: AT5025230

where N is the number of particles per cm^3 , $R = \frac{a_{\max}}{a_{\min}}$. $\epsilon(R) = \frac{1}{1 - \frac{1}{R^{v-1}}}$. The normalized

indicatrices are calculated. The parameter A does not figure in these indicatrices. The values of v , a_{\min} and a_{\max} were chosen on the basis of experimental works on the spectrum of the atmospheric aerosol. A formula is derived for finding the normalized polydisperse indicatrices and the results of calculation using this formula are tabulated. Some of the results of the calculations are analyzed in more detail. Orig. art. has: 3 figures, 17 formulas, 4 tables.

ASSOCIATION: Glavnaya geofizicheskaya observatoriya (Main Geophysical Observatory)

SUBMITTED: 00

ENCL: 00

SUB CODE: ES

44,55

NO REF SOV: 007

OTHER: 016

BVK

Card 2/2

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308210011-5

CHAYANOVA, L. A., M. I. RYZHENKO, F.M. MAZAYEV, and B. P. MANTEYEV.¹

"The Biological Foundations of Herring Fisheries in the North Atlantic."

report presented at the All-Union Conference on Biological Foundations of Ocean Fishing, 11-16 April 1958, by Ichthyological Committee of AS USSR, VNIRO, and Inst. Oceanography, AS USSR.
(Vest. AN SSSR, 1958, No. 7, pp. 131-133)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308210011-5"

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308210011-5

CHAYANOVA, L.A.

Feeding of sprat in the Black Sea. Trudy VNIRO 36:106-127 '58.

(NIRA 12:4)

(Black Sea--Sprats)

(Fishes--Food)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308210011-5"

MANTEYFEL', B.P.; CHAYANOVA, L.A.

Biological characteristics and conditions for the use of purse seines
in North Atlantic herring fisheries. Trudy sov. Ikht. kom. no.10:
98-105 '60. (MIRA 13:10)

1. Institut morfologii zhivotnykh im. A.N. Severtsova Akademii nauk
SSSR (for Manteyfel'). 2. Vsesoyuznyy nauchno-issledovatel'skiy
institut morskogo rybnogo khozyaystva i okeanografii-(VNIRO).
(Atlantic Ocean--Herring fisheries) (Fishing nets)

CHAYANOVA, Ye. A.

AUTHORS: Murina, T.M., Prokhorov, A.M. and Chayanova, E.A. SOV/109-3-11-10/13

TITLE: Measurement of the Absolute Intensity of the Absorption Lines (Izmereniye absolyutnykh intensivnostey liniy pogloshcheniya) (Letter to the Editor)

PERIODICAL: Radiotekhnika i Elektronika, 1958, Vol 3, Nr 11,
pp 1402 - 1404 (USSR)

ABSTRACT: It is shown that the measurement of the absolute intensity of the absorption lines can be done by means of a ferrite modulator such as shown in Figure 1. This consists of (1, 2) sections of a rectangular waveguide, (3) a circular waveguide, (4) a magnetising solenoid, (5) sample of ferrite and (6) a dielectric holder. The modulator is based on the Faraday effect and permits the modulation of transmitted power at the frequency of the Stark modulation. For the measurements, the modulator is placed between a klystron and an absorbing cell, the modulation frequency being 75 kc/s. It is shown that, if the detector (at the output of the waveguide (2) in Figure 1) has a square characteristic, the ratio of the low-frequency component of the output voltage to the direct-current component is equal to twice the modulation index. A curve of the voltage ratio as

Card 1/2

SOV/109-3-11-10/13
Measurement of the Absolute Intensity of the Absorption Lines

a function of the detector current is shown in Figure 2. From this, it is seen that the detector has a square characteristic from 0 to 0.4 mA. The method was used to determine the absolute intensity of the ammonia absorption lines. It was found that the error was of the order of 3.5%. There are 2 figures and 2 Soviet references.

ASSOCIATION: Fizicheskiy institut im. P.N. Lebedeva AN SSSR
(Institute of Physics imeni P.N. Lebedev of
the Ac.Sc.USSR)

SUBMITTED: February 22, 1958

Card 2/2

CHAYCHENKO, G. [Chaichenko, H.], nauchnyy sotrudnik

Biology of Mars. Mauka i shyttia 12 no.2:25-27 F '63.
(MIRA 16:4)

1. Institut fisiologii Kiyevskogo gosudarstvennogo universi-
teta im. Schevchenko.

(Mars(Planet))

Chaychenko, V.I.

AUTHOR: Drobyshev, L.V. and Chaychenko, V.I. (Giprokok). 531

TITLE: Measuring levels of inflammable and explosive liquids by a piezo-metric method using compressed air. (Izmereniye urovney legkovosplamenyayushchikhsya i vzryvoopasnykh zhidkostey p'ezometricheskim metodom s pomoshch'yu szhatogo vozdukh.)

PERIODICAL: "Koks i Khimiya" (Coke and Chemistry),
1957, No. 4, pp. 47 - 50, (U.S.S.R.)

ABSTRACT: The principle of the method consists of measuring piezo-metric pressure, generated by blowing air or any other gas through a piezo-metric tube immersed in a liquid. Two variants of the method are described and illustrated. There are 2 diagrams.

Государственный инст. по проектированию промышленности
коксохимической промышленности.

AUTHORS: Drobyshev, L.V. and Chaychenko, V.I. SOV/68-58-10-11/25

TITLE: Control of the Operation of Continuous Benzol Rectification Columns (Regulirovaniye benzol'nykh rektifikatsionnykh kolonn nepreryvnogo deystviya)

PERIODICAL: Koks i Khimiya, 1958, Nr 10, pp 36 - 39 (USSR)

ABSTRACT: Conditions required for a successful automation of the continuous rectification columns for washed benzol (producing pure benzol) are discussed. It is pointed out that the existing automatic schemes (Figure 1) based/^{on} the control on the temperatures at the bottom and top of the column are not efficient. A new scheme (Figure 2) proposed by the authors, will take into consideration the control of all the parameters determining the composition of the liquid on the top plate and thus the composition of the finished product. There are 2 figures.

ASSOCIATION: Giprokok

Card 1/1 Gosudarstvennyy institut po proyektirovaniyu predpriyatiy koksokhimicheskoy promyshlennosti.

CHAYCHENKO, V.I., insh.

Automatic control of coke ovens. Mekh. i avtom. proizv. 17
no. 5:1-4 My '63. (MIRA 16:6)

(Coke ovens) (Electronic control)

MICHURINA, K.I., kandidat tekhnicheskikh nauk, dotsent; FRENKEL', Ya.I.,
inzhener; CHAYCHUK, A.Ya., inzhener; ROGOV, B.M., inzhener; BRAVKOV, D.A., inzhener.

Co-operative effort to increase the efficiency of the heat supply
system in machinery-manufacturing plants. Trudy LIKI no.7:80-96 '54.
(Heat engineering) (MLRA 9:9)

CHAYEV, I. Ye.

Zaychik, L. I. and Chayev, I. Ye. "An investigation of the operation of pneumatic tubing", Neft. khoz-vo, 1948, No. 12, p. 39-44.

SO: U-2888, 12 Feb. 53, (Letopis' Zhurnal 'nykh Statey, No. 2, 1949).

CHAYEVA, M.A., meditsinskaya sestra (Moskva)

~~Care of children with bone and joints tuberculosis. Med. sestra
15 no.3:18-19 Mr '56.~~ (MIRA 9:6)
(PEDIATRIC NURSING) (BONES--TUBERCULOSIS)

CHUKHNO, Anatoliy Andreyevich; CHAYEVSKAYA, N. [Chaiëvs'ka, N.], red.;
LOVENGARDT, I., tekhn.red.

[Expanded rights of the Union Republics to develop their national
economy] Rozshyrennia prav sovusnykh respublik u hospodars'kому
budivnytstvi. Kyiv, Dersh.vyd-vo politplit-ry URSR, 1959. 70 p.

(MIRA 13:5)

(Russia--Economic policy)

KUDENKO, O.; CHAYEVSKAYA, N. [Chayev's'ka, N.], red.; LEPCHENKO, K.,
tekhn.red.

[In the Dnieper reaches] Na plesakh dniprovykh. Kyiv, Dersh.
vyd-vo polit.lit-ry Ukr., 1960. 30 p. (MIRA 13:5)
(Dnieper River—Navigation)

GOFMAN, Genrikh, Geroy Sovetskogo Soyuza, polkovnik aviatsii;
CHAYEVSKAYA, K.N., red.; CHAPAYEVA, R.I., tekhn. red.

[Vladimir Il'iushin. Moskva, Voen.izd-vo M-va oborony SSSR,
1961. 42 p.
(MIRA 15:1)
(Il'iushin, Vladimir Sergeyevich, 1927)]

KARPOV, Mikhail Petrovich, kand. ekon. nauk, starshiy prepodavatel';
CHAYEVSKAYA, N. [Chalevs'ka, N.], red.; LEVCHENKO, O., tekhn. red.

[Improving production quality, eliminating defects] Pidvyshchuvaty
iakist' produktsii, pratsiuватy bez braku. Kyiv, Derzh. vyd-vo
polit. lit-ry URSR, 1961. 45 p. (MIRA 14:11)

1. Kiyevskiy institut narodnogo khozyaystva (for Karpov).
(Ukraine—Production control)

FADEYEV, Yevgeniy Leont'yevich [Fadieiev, I.E.L.]; CHAYEVS'KAIA, N.S.
[Chaijevs'ka, N.S.], red.; GAVRILETS, D.V. [Havrylets', D.V.],
tekhn. red.

[Technical industrial and financial plan of an industrial
enterprise] Tekhpromfinplan promyslovoho pidpryiemstva. Kyiv,
Derzh. vyd-vo polit. lit-ry URSR, 1961. 33 p. (MIRA 14:11)

1. Direktor kiyevskogo zavoda "Transsignal" (for Fadeyev).
(Kiev—Industrial management)

POPOV, Boris Ivanovich, prepodavatel'; CHAYEVSKAYA, N.S. [Chaijevs'ka, N.S.],
red.; MIL'KIN, Yu.A., tekhn. red.

[The nature of technological progress] Shcho take tekhnichnyi progres.
Kyiv, Derzh. vyd-vo polit. lit-ry URSR, 1961. 39 p. (MIRA 14:10)

1. Kiievskiy ordena Lenina politekhnicheskiy institut (for Popov).
(Technology)

VREMEVA, Tat'yana Alekseyevna, kand. ekonom. nauk, dotsent; CHAYEVSKAYA,
N.S. [Chalevs'ka, N.S.], red.; MIL'KIN, Yu.A., tekhn. red.

[Organization of wages in industrial enterprises] Organizatsiia
zarobitnoi platy na promyslovykh pidpryiemstvakh. Kyiv, Derzh.
vyd-vo polit. lit-ry URSR, 1961. 40 p. (MIRA 14:11)

1. Kiyevskiy institut narodnogo khozyaystva (for Vremeva).
(Wage payment systems)

GORELIK, Leopol'd Emmanuilovich [Horelik, L.E.], doktor ekonom. nauk, prof.;
CHAYEVSKAYA, N.S. [Chatevs'ka, N.S.], red.; GAVRILETS', D.V.
[Havrylets', D.V.], tekhn. red.

[Business accounting in a socialist industrial enterprise] Hospo-
dars'kyi rozrakhunok na sotsialistichnomu promyslovomu pidpryiem-
stvi. Kyiv, Derzh. vyd-vo polit. lit-ry URSR, 1961. 42 p.
(MIRA 14:10)

1. Zaveduyushchiy otdelom ekonomiki truda Instituta ekonomiki
AN URSR (for Gorelik).
(Russia—Industries)

ZHURBA, Semen Iosifovich; CHAYEVSKAYA, N.S. [Chaievs'ka, N.S.], red.;
KOPITKOVA, N.K. [Kopytkova, N.K.], tekhn. red.

[Fraternal cooperation] Braters'ke spivrobitnytstvo. Kyiv,
Derzh. vyd-vo polit. lit-ry, URSR, 1961. 102 p. (MIRA 15:3)
(Communist countries--Foreign economic relations)

PIVNEV, Vitaliy Aleksandrovich [Pivniev, V.O.], prepodavatel' politicheskoy ekonomii; CHAYEVSKAYA, N.S.[Chaijevs'ka, N.S.], red.; LEVCHENKO, O.K., tekhn. red.

[Origin of the communist distribution of public consumption funds] Parostky kommunistychno rospodilu. Kyiv, Derzh. vyd-vo polit. lit-ry URSR, 1962. 60 p. (MIRA 15:3)

1. Odeskiy politekhnicheskiy institut (for Pivnev).
(Cost and standard of living)

CHUISTOV, Vladimir Mikhaylovich, kand. ekon. nauk, starshiy nauchnyy
sotr.; CHAYEVSKAYA, N.S. [Chaievs'ka, N.S.], red.; GAVRILETS', D.V.
[Havrylets', D.V.], tekhn. red.

[Organization of management in a socialist industrial enterprise]
IAk organizovano upravlinnia sotsialistichnym promyslovym pid-
pryiemstvom. Kyiv, Derzh. vyd-vo polit. lit-ry URSR, 1961. 44 P.
(MIRA 14:10)

1. Institut ekonomiki AN URSR (for Chuistov).
(Industrial organization)

CHAYEVSKAYA, N.S. [Chaijevs'ka, N.S.], red.; KOPYTKOVA, M.K., tekhn.
red.

[Program on the principles of the economics of socialist
industry, for workers studying in elementary economics
study groups and vocational instruction schools] Programa
z osnov ekonomiki sotsialisticheskoi promyslovosti dlia robit-
nykiv, shcho navchajut'sia u pochatkovykh ekonomichnykh
hurtkakh i shkolakh vyrabnychoho navchannia. Kyiv, Derzh-
politydav URSR, 1962. 15 p. (MIRA 16:3)

1. Kommunisticheskaya partiya Sovetskogo Soyuza. Vysshaya
partiynaya shkola. Kafedra sovetskoy ekonomiki.
(Industrial management)

VITKOVSKIY, Anatoliy Mikhaylovich [Vitkovs'kyi, A.M.]; CHAYEVSKAYA,
N.S.[Chaiiev's'ka, N.S.], red.; MEYEROVICH, S.L., tekhn. red.

[Labor productivity is the main thing for the victory of communism] Produktyvnist' pratsi - holovne dla peremohy komunizmu. Kyiv, Derzhpolitydav URSR, 1962. 43 p. (Na dopomohu vychiuchym materialy XXII s'izdu KPRS) (MIRA 15:11)

1. Starshiy prepodavatel' Kiyevskogo instituta fizicheskoy kul'tury (for Vitkovskiy).

(Labor productivity)

BABICHEV, G.T.[Babichev, H.T.]; GAL'CHINSKAYA, V.A.
Hal'chins'ka V.A.]; DEMIDYUK, F.O.[Demidyuk, F.H.];
LITVIN, S.G.[Lytvyn, S.H.]; NISHCHUK, S.M.; STEMIK,
P.M.[S'omyk, P.M.], red.; KIFORENKO, I.S., red.;
CHAYEVSKAYA, N.S.[Chaijevs'ka, N.S.], red.; SERGEYEV,
V.F.[Serhieiev, V.F.], tekhn. red.

[Manual of a rural activist] Dovidnyk sil's'koho akti-vista. Kyiv, Derzh. vyd-vo pol. lit-ry URSR, 1962. 563 p.
(MIRA 17:1)

1. Prepodavateli Vysshey partiynoy shkoly pri TSentral'nom
komiteete Kommunisticheskoy partii Ukrainskoy (for Babichev,
Gal'chinskaya, Demidyuk, Litvin, Nishchuk).
(Agriculture—Handbooks, manuals, etc.)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308210011-5

CHAYEVSKIY, M. I.

"Experimental Investigation of the Stability of Motion of a Flexible Roller Beyond the Critical Speed." Cand Tech Sci, L'vov Polytechnic Inst, Min Higher Education USSR, L'vov, 1954. (KL, No 3, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (12)
SO: Sum. No. 556, 24 Jun 55

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308210011-5"

1690. Leonov, M. Ya., and Chalevsky, M. I., Experimental verification of the steadiness of rotation of shafts in the transcritical region (in Russian), *Naučn. Zap. in-ta mashinoved. i avtomatiki Akad. Nauk USSR* 4, 3, 3-14, 1955; Rev. no. 675, *Ref. Zh. Mekh.* 1956.

A description of experiments on the investigation of the steadiness of rotation of shafts running at transcritical speeds (apparently, the steadiness of the precessional motion in relation to the rotational velocity is meant). For the case of cantilevered shafts with end disks, unsteadiness is found at all speeds above the critical. For shafts hinge-supported at the ends and with the disk in the center, stability depends on the ratio of "external" to "internal" friction. A determination is made of the damping decrement of the natural, flexural vibrations δ_1 for a shaft in the experimental arrangement, and the decrement δ_1 attached in such a manner as to reduce the "external" losses to a minimum. The following empirical relationship is established: if $\delta_1 = \delta_1^*$, the motion beyond the critical speed will be steady; if $\delta_1 < \delta_1^*$, the motion will be unsteady. In the opinion of the author, the experimental results contradict the known analytical solution whereby the ratio between the forces of "internal" friction and the forces of "external" friction (distortion) is linear.

V. V. Golosov, USSR

Courtesy of *Referativnyi Zhurnal*

Translation, courtesy Ministry of Supply, English

USSR/Engineering - Friction CHAYEVSKIY, M.I.

FD-3023

Card 1/1 Pub. 41 - 7/15

Author : Chayevskiy, M. I., L'vov

Title : Investigation of the stability of the rotation of flexible shafts operated in excess of critical speeds

Periodical : Izv. AN SSSR, Otd. Tekh. Nauk 9, 107-118, Sep 55

Abstract : Establishes that during the rotation of a vertically situated shaft with a disc, external friction either does not increase the speeds at which the shaft loses stability or makes the shaft stable at all speeds beyond the critical. This conclusion is based on experimental data and theoretical investigations. Describes experimental setup. Presents theoretical bases upon which conclusion is based. Photographs, diagrams, formulae, graphs. Nine references, 6 USSR.

Institution:

Submitted : February 16, 1955

CHAYEVSKIY, M.I. (L'vev)

On existing methods of calculating external resistance forces
in investigating the strength of flexible shafts having eccentric
disks fitted on them. Izv.AN SSSR tekh.nauk no.11:122-124
N '55. (Friction) (MLRA 9:2)

LEONOV, M.Ya.; CHAYEVSKIY, M.I.

Experimental testing of shaft rotation stability for critical speed. Mauch.sap.IMA AN USSR Ser.mashinoved. 4 no.3:5-11 '55.
(MLRA 9:8)

(Shafts and shafting)

SOV/124-57-3-3471

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 3, p 122 (USSR)

AUTHOR: Chayevskiy, M. I.

TITLE: On the Evaluation of the Stability of Motion of a Flexible Shaft With a Disc Mounted Thereon (Ob otseinke ustoychivosti dvizheniya gibkogo vala s diskom)

PERIODICAL: Nauch. zap. In-ta mashinoved., i avtomatiki AN UkrSSR, 1956,
Vol 5, pp 67-85

ABSTRACT: The motion of an imponderable shaft with a disc mounted thereon is studied with due consideration given to the internal friction in the material of the shaft. By means of the energy method it is shown that during the rotation of the shaft at speeds that are beyond the critical speed the internal friction creates an unstable condition, while the external friction which is proportional to the velocity of the disc center contributes to its stability. It is also established that as regards motion stability a horizontal shaft is under more advantageous conditions than a vertical shaft.

V. L. Biderman

Card 1/1

124-1957-1-171

Translation from: Referativnyy zhurnal, Mekhanika, 1957, Nr 1, p 18 (USSR)

AUTHOR: Chayevskiy, M. I.

TITLE: On the Determination of the Maximum Torque Arising in a Turbo-generator Shaft as the Result of a Sudden Short-Circuit (Ob opredelenii maksimal'nogo vrashchayushchego momenta v vale turbogeneratora pri vnezapnom korotkom zamykani)

PERIODICAL: Nauch. zap. In-ta mashinoved. i avtomatiki AN UkrSSR, 1956, Nr 5, pp 86-91

ABSTRACT: An investigation is made of the effects upon a turbo-generator shaft resulting from a sudden short circuit in the generator, assuming an initial zero-load condition and an unchanged action of the liquid upon the turbine wheel. It is proved that in such cases it is necessary to take into account not only the forced but also the self-induced damped vibrations of the two-mass system. Formulas are given for the change in torque with time in three specific cases, whereupon a graphic method for the determination of the maximum shaft torque is suggested. The article contains typographic errors.

Card 1/1

1. Generators--Shafts--Torque--Determination
2. Electrical circuits--Applications

M. K. Kristi

CHAYEVSKIY, M.I.

Joint influence of eccentricity and internal friction forces on
the motion stability of a flexible shaft. Nauch.sap. TMA AN URSR.
Ser.mashinoved. 6 no.5:16-23 '57. (MIRA 10:?)
(Shafts and shafting) (Stability)

SOV/124-58-3-3481

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 3, p 127 (USSR)

AUTHOR: Chayevskiy, M. I.

TITLE: The Effect of Hysteresis Losses Occurring in Junctions of Components on the Rotary Stability of Motion of a Flexible Shaft (Vliyanie gisteresisnykh poter' v mestakh sopryazheniya detaley na ustoychivost' dvizheniya gibkogo vala)

PERIODICAL: Nauchn. zap. In-ta mashinoved. i avtomatiki. AN UkrSSR, 1957, Vol 6, pp 24-27

ABSTRACT: A brief summary of experimental results of an investigation dealing with the nature of motion of a flexible shaft in the presence of hysteresis forces, i.e., frictional forces in regions of junction of disks and bushings with the shaft, frictional forces acting at junctions of connecting sleeves, etc. Decrement of free damped oscillations are determined. It is established that the motion of the shaft is stable at any number of revolutions above the critical value, providing the damping decrement due to the action of external frictional forces is greater than the decrement resulting from hysteresis forces in zones of contact and from internal

Card 1/2

The Effect of Hysteresis Losses Occurring in Junctions of Components (cont.) SOV/124-58-3-3481

friction forces within the material of the shaft. The author comments on certain peculiarities of the action of hysteresis forces as compared with forces of internal friction.

V. M. Makushin

Card 2/2

124-58-9-10335

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 9, p 133 (USSR)

AUTHOR: Chayevskiy, M. I.

TITLE: On the Determination of the Energy Losses Within a Rotating
Shaft (Ob opredelenii poter' energii v materiale vrashchayu-
shchegosya vala)

PERIODICAL: Nauchn. zap. In-ta mashinoved. i avtomatiki AN UkrSSR,
1957, Vol 6, pp 28-32

ABSTRACT: Measurements on a specially constructed testing device were made of the deflection of the extreme of a shaft at a specified angular velocity, whereupon a "damping coefficient" was determined from a formula. In setting up the formula the author started from a hypothesis on the independence of the energy dissipation within a substance from the prevailing stress (a mathematical expression of this hypothesis is given in the form proposed by Ye. S. Sorokin, V sb.: Issled. po dinamike sooruzh., 1951). A description is given of a method for the observation of the hysteresis loop, wherein resistance-type strain gages and an electronic oscillograph are employed both for steady-state and for transient rotational regimes of the shaft. 1. Shafts--Performance 2. Shafts V. V. Khil'chevskiy
--Test methods

Card 1/1